

# EXECUTIVE SUMMARY

- Young Minos issues:
  - Using shared 2PB Dcache readWrite pool, will expand to 4 PB
  - Beta-testing jobsub\_client for full scale Fermigrid access
  - ESNET dropping Video and Readytalk Oct 2014.
    - Do we use/need video, will we pay ?
    - What audio conference features do we need ?
  - CS/OSG Task force studying shared file caching (LEM, templates)
- Wilson Hall power outage 06:00-18:00 Sat Apr 19
- Need to move to SLF6 - all FermiGrid at SLF6 by Oct 2014
- Windows XP was banned from all Fermilab networks Tue Apr 8
- Deploying CVMFS for access to OSG ( including CMS,D0, all OSG ) - testing now
- Have stopped producing Dogwood keepup files
- Will remove all data and MC candidate files, freeing up 400TB of tape media.
- SCPPM meeting in early Feb-> Apr 24/25 to present our plans for next 4 years
- Mysql 5.0 server needs to move to 5.5 or MariaDB - no user impact

# GRID

- New jobsub\_client architecture, merging minos25/54 and gpsn01 functions
  - Goals :
    - Proxies are provided, all you need is a client and kerberos ticket
    - Scaleable High Availability infrastructure
    - Client is light weight, communicates via the web
    - Isolate CONDOR\_TMP with .log/.err/.out from condor operations
    - Compatible with present jobsub\_tools
  - Requires use of jobsub in place of minos\_jobsub ( setup jobsub\_client )
    - as used in NovA, Minerva and the rest
    - submit a file to execute, not a command
  - Beta testing
    - Some features are still in development
    - Used by Minos weekend of Apr 5 to run 13K jobs, got 3500 slots.
  - See <https://cdcv.sfnal.gov/redmine/projects/batch/wiki/HAJOB SUB>
- /cvmfs/minoscfs.fnal.gov/ is set up now, empty at the moment
  - Need to deploy and configure a new ups to handle the new path

# DATA handling - SAM

- SAMWEB is deployed for Minos
  - A web services SAM server, command line and URL access
  - Heavily in use in Minerva and NOvA
  - We are migrating to this from traditional sam
  - Examples soon <https://cdcv.s.fnal.gov/redmine/projects/minos/wiki/SAM-LIST>
  - Can deploy by unwinding tarfile and running samweb binary directly
- SAM will migrate from Oracle to Postgresql database by Oct 2014
  - For cost savings, portability, and performance
- Preparing to drop obsolete tables from SAM backend database
  - for the SAM Postgresql migration
  - detailed work in <https://cdcv.s.fnal.gov/redmine/issues/4337>
  - have stopped running old-style 'projects' in the framework, not supported
  - Should be transparent. Tentatively Apr 22 2014

# DATA handling - Bluearc

- Bluearc overloads much lighter this year
  - Will lock by file system, not group, in future ( transparent)
- /minos/data cleanout
  - Moving all sntp files to Dcache, started with dogwood5
  - Will move mcimport/STAGE when Dcache SFA is online
- /minos/app data cleanout/purge
  - moving user data files to /minos/data
  - Will imposed quotas, initially large
- Start using ifdh cp in place of cpn
  - Invokes cpn where appropriate, plus ftp etc when needed
  - Uses dd for faster file moving

# Enstore/DCache

- Dcache NFS 4.1 direct file access – requires SLF 6.4
  - Working now on minos-slf6
  - Investigating 30 second delays getting file metadata under heavy load
- ENSTORE SFA ( Small File Aggregation) is deployed
  - Have requested, being approved and deployed
  - We should use this to archive mcimport\_data and STAGE areas
- CD deploying 4 PB for IF
  - Deployed in production mid November, upped to 2 PB in Apr 2014
  - /pnfs/minos/scratch available for files not backed up to tape
  - Minos read and write pools are merged into the public pool group

# SCS/SDP news

- The SCD supported jobsub\_client script is in development
  - This will replace minos25/54 and release present 1800 job limit
- MOUs are now called TSW. See Keith Chadwick's talk at this meeting.
  - Restructured around 'service' model

# GPCF

minos-slf4 = minosgpvm02 runs SLF 4.7 32 bit kernel

- Still there for Minerva MC.
- Could go away at any moment

Deployed minos-slf6 for NFS 4.1 Dcache direct access tests

- Please finish certification of full processing chain
- Can read Dcache ( /pnfs/minos ) directly via NFS 4.1

# Minos Servers

- SLF6 migration – just starting, use minos-slf6
  - next is minos-nearline
- Mysql server will need to go from 5.0x to 5.5x or to Mariadb
  - Verify there is no effect on clients
  - DBA's will handle the upgrade
  - We need a database coordinator to lead this



# Control Room / DAQ

- Control Room computers
  - Moved closer to the door to make room for uboone
- ECL – various updates and bug fixes
  - Use NEW view, expand/collapse items with an easy click.
  - Adding conditional fields and centered notes, WIP
- Minos-om died
  - Static pages had moved to [nusoft.fnal.gov/minos/controlroom/...](http://nusoft.fnal.gov/minos/controlroom/...)
  - FLUFFY is at <http://numi-fluffy.fnal.gov/cgi-bin/fluffy.cgi>